

REMARKS

With this amendment, claims 1, 3-16, 18-25, 27-33, and 37-39 remain pending in the present application. Claims 1-3, 6-9, 12-16, 18, 19, 21-24, 28-33, and 35-37 have been amended to more particularly claim the invention. Claim 1 has been amended to include subject matter in original claim 2. Claim 16 has been amended to include subject matter in original claims 17 and 26. Claim 33 has been amended to include subject matter in original claims 35 and 36. Claims 2, 17, 26, 35, and 36 have been canceled without prejudice. Continued examination of the present application as amended is hereby requested.

The Applicant has carefully and thoughtfully considered the Office Action and the comments therein. For the reasons given below, it is submitted that this application is in condition for allowance.

Interview

Applicants thank the Examiner for the personal interview of October 11, 2007 and the Interview Summary of October 23, 2007. During the interview, claims 1, 14, and 16 were discussed, along with U.S. Patent No. 5,339,433 and U.S. Patent No. 6,851,105. The Examiner and Applicant's representatives talked about possible amendments to the claims.

Rejections under 35 USC § 103 – Coad in view of Frid-Nielsen

On pages 2-13, the Action rejects claims 1-33 and 35-39 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,851,105 to Coad et al. (hereinafter Coad) in view of U.S. Patent No. 5,399,433 to Frid-Nelson. (hereinafter Frid-Nelson). Applicants respectfully traverse the rejection.

Regarding claim 1, Coad and Frid-Nelson, taken either singly or in any reasonable combination, do not disclose or suggest the claimed invention for at least the following reasons.

First, Coad fails to disclose or suggest "generat[ing] embedded code from the graphical model," as recited in claim 1. Instead of disclosing "generat[ing] embedded code from the graphical

model” of claim 1 Coad discloses a “software development tool that generates [a] pattern instance.” Coad, col. 6, ll. 42-47. The software development tool “applies a pattern to a portion of existing code to improve the design of the existing code.” Coad, col. 6, ll. 42-47 (emphasis added). According to Coad, the creation of patterns in existing source code may be depicted in a diagram. See, e.g., Coad, Figs. 9-11, diagrams 9022 and 1022; and Coad, col. 25, ll. 36-46. In contrast, claim 1 recites “generat[ing] embedded code from the graphical model.” Frid-Nelson doesn’t overcome the failings of Coad. Hence, the combination of Coad and Frid-Nelson fails to disclose “generat[ing] embedded code from the graphical model,” as recited in claim 1.

Second, Frid-Nelson fails to disclose or suggest “prompting a user to specify at least one code generation goal from a plurality of code generation goals,” as recited in claim 1. In the Office Action, the Examiner states that Coad fails to disclose, at least, “a code generation goal” or “generating code for a code generation goal.” Applicants agree.

Frid-Nelson discloses a development environment wherein a compiler compiles source code to generate object modules or files. See Frid-Nelson, col. 3, ll. 33-45; col. 8, 61-65; FIGS. 3A and 3B. This compilation process may include storing explicit references to the symbols of the source code listings in the object modules. See Id. This information may then be accessed, “live” by a browser. See Frid-Nelson, col. 8, 61-65; col. 9, ll. 51-55; FIG. 5, IDE 400; and col. 10, ll. 10-23. In contrast, claim 1 recites “prompting a user to specify at least one code generation goal from a plurality of code generation goals.” Hence, the combination of Coad and Frid-Nelson fails to disclose “prompting a user to specify at least one code generation goal from a plurality of code generation goals,” as recited in claim 1.

Third, Frid-Nelson fails to disclose or suggest “automatically changing parameters of the graphical model that are inconsistent with the at least one code generation goal,” as recited in claim 1. Instead, as discussed above, Frid-Nelson discloses a development environment wherein a compiler compiles source code to generate object modules or files. See Frid-Nelson, col. 3, ll. 33-45; col. 8, 61-65; FIGS. 3A and 3B. This compilation process may include storing explicit references to the symbols of the source code listings in the object modules. See Id. This information may then be accessed, “live” by a browser. See Frid-Nelson, col. 8, 61-65; col. 9, ll. 51-

55; FIG. 5, IDE 400; and col. 10, ll. 10-23. In contrast, claim 1 recites “automatically changing parameters of the graphical model that are inconsistent with the at least one code generation goal.” Hence, the combination of Coad and Frid-Nelson fails to disclose “automatically changing parameters of the graphical model that are inconsistent with the at least one code generation goal,” as recited in claim 1.

Fourth, Frid-Nelson fails to disclose or suggest “automatically generating embedded code in accordance with the at least one code generation goal,” as recited in claim 1. Instead, as discussed above, Frid-Nelson discloses a development environment wherein a compiler compiles source code to generate object modules or files. See Frid-Nelson, col. 3, ll. 33-45; col. 8, 61-65; FIGS. 3A and 3B. This compilation process may include storing explicit references to the symbols of the source code listings in the object modules. See Id. This information may then be accessed, “live” by a browser. See Frid-Nelson, col. 8, 61-65; col. 9, ll. 51-55; Ref. No. 400 in FIG. 5; and col. 10, ll. 10-23. In contrast, claim 1 recites “automatically generating embedded code in accordance with the at least one code generation goal.” Hence, the combination of Coad and Frid-Nelson fails to disclose “automatically generating embedded code in accordance with the at least one code generation goal,” as recited in claim 1.

Fifth, both Coad and Frid-Nelson fail to disclose or suggest “a graphical modeling environment,” as recited in claim 1. Coad, as discussed above, discloses a “software development tool that generates [a] pattern instance.” Coad, col. 6, ll. 42-47 (emphasis added). The software development tool “applies a pattern to a portion of existing code to improve the design of the existing code.” See Coad, col. 6, ll. 42-47. Frid-Nelson, as discussed above, discloses a development environment wherein a compiler compiles source code to generate object modules or files. See Frid-Nelson, col. 3, ll. 33-45; col. 8, 61-65; FIGS. 3A and 3B. In contrast, claim 1 recites “a graphical modeling environment.” Hence, the combination of Coad and Frid-Nelson fails to disclose “a graphical modeling environment,” as recited in claim 1.

Therefore, Coad and Frid-Nelson, taken either singly or in any reasonable combination, fail to disclose or fairly suggest claim 1.

For reasons set forth above, Applicants believe that claim 1 is allowable and respectfully request that the above rejection of claim 1 be withdrawn and that claim 1 be allowed. Dependent claims 2-13 are believed to be allowable, at least, for being dependent from an allowable claim. Therefore, Applicants respectfully request that the above rejection of claims 2-13 be withdrawn and that claims 2-13 be allowed.

Independent claims 14, 16, 30, 31, 32, and 33 recite subject matter similar to that recited in claim 1, which Applicants believe is allowable over Coad in view of Frid-Nelson as discussed above. Therefore, Applicants believe claims 14, 16, 30, 31, 32 and 33 are allowable for at least the reasons set forth above. Applicants respectfully request that the above rejection of claims 14, 16, 30, 31, 32 and 33 be withdrawn and that claims 14, 16, 30, 31, 32 and 33 be allowed.

Dependent claims 15, 18-25, 27-29 and 35-39 are believed to be allowable, at least, for being dependent from allowable claims. Therefore, Applicants respectfully request that the above rejection of claims 15, 18-25, 27-29 and 35-39 be withdrawn and that claims 15, 18-25, 27-29 and 35-39 be allowed.

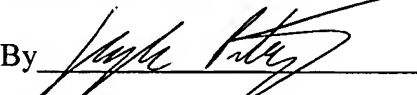
Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is hereby invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment is respectfully requested.

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Respectfully submitted,

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